

ABSTRACT OF THE DISCLOSURE

A radiation image read-out apparatus includes a plurality of radiation image convertor panels superposed one on another in a direction in which radiation passing through an object propagates. A separator separates the superposed radiation image convertor panels exposed to the radiation passing through the object from one another by moving in a parallel displacement and/or rotating about an axis on a plane parallel to the surfaces of the radiation image convertor panels one or more of the superposed radiation image convertor panels relatively to the others. A single detecting head detects stimulated emission emitted from each of the radiation image convertor panels separated by the separator.